Bruhat Bangalore Mahanagara Palike

Name of Work: Modified Estimate for Providing and fixing Chainlink Fencing to abandoned Kogilu Quarry in ward no. 05, Yelahanka Division

DETAILED QUANTITY CALCULATION & COST ESTIMATE

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
1	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301 (BCSR 2016-2017, Page 143, Item No 19.14)								
	Quoted Rate	**160.63**							
	Basic Rate	46.00							
	Add Area weightage of 6%	2.76							
	Sub Total	48.76							
	Lead 5 Kms	84.00							
	Total	132.76							
	Above 9.0% TP	11.95							
	Sub Total	144.71							
		Cum							
	For Chain Link Fencing								
	Surround		1	1750.00	3.00	0.50	2625.00		
	Clearing Existing Debris		1	728.00	10.00	1.00	7280.00		
	Road		1	566.00	5.90	0.20	667.88		
					Total Qty		**10572.88**		
					Upto 125%		**4284.38**	**160.63**	**688199.16**
					Above 125%		**6288.51**	**144.71**	**909999.50**
2	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (BCSR 2016-2017, Page 5, Item No 2.1)								
	Quoted Rate	**303.00**							
	Basic Rate	157.00							
	Add Area weightage of 6%	9.42							
	Sub Total	166.42							
	Lead 5 Kms	84.00							
	Total	250.42							
	Above 9.0% TP	22.54							
	Sub Total	272.96							
		Cum							
	For Chain Link Fencing								
			750	0.60	0.60	0.60	162.00		
					Total Qty		**162.00**		
					Upto 125%		**36.70**	**303.00**	**11120.10**
					Above 125%		**125.30**	**272.96**	**34201.61**
3	KSRB 2.2.6 : Excavation 1.5m and above in width in hard rock by chiselling and / or wedging, where blasting is prohibited for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m. in depth stacking the excavated stuff clear from the edge of excavation with lead upto 50m including cost of labour complete as per specifications. Specification. No. KBS (BCSR 2016-2017, Page 5, Item No 2.8)								
	Quoted Rate	**1725.41**							

	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
	Basic Rate	1266.00							
	Add Area weightage of 6%	75.96							
	Sub Total	1341.96							
	Lead 5 Kms	84.00							
	Total	1425.96							
		Cum							
	For Chain Link Fencing								
			0	0.45	0.45	0.45	0.00		
							0.00	**1725.41**	**0.00**
4	KSRB 4-1 .6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement@ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.(BCSR 2016-2017, Page 12, Item No 4.6)								
	Quoted Rate	**6978.62**							
	Basic Rate	5441.00							
	Add Area weightage of 6%	326.46							
	Sub Total	5767.46							
	For Chain Link Fencing	**Cum**							
			750	0.45	0.45	0.50	75.94		
							75.94	**6978.62**	**529938.96**
5	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of **50x50X6** mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (BCSR 2016-2017, Page 262, Item No 37.2)								
	Quoted Rate	**1050.44**							
	Part Rate	743.00							
	Add Area weightage of 6%	44.58							
	Sub Total	787.58							
	Above 9.0% TP	70.88							
	Sub Total	858.46							
	For Chain Link Fencing	**m**	750	2.60			1950.00		
							1950.00	**858.46**	**1674001.29**
6	Providing and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.4)								
	Quoted Rate	**415.56**							
	Basic Rate	324.00							
	Add Area weightage of 6%	19.44							
	Sub Total	343.44							
		m							
	For Chain Link Fencing		3	1750.00			5250.00		
							5250.00	**415.56**	**2181690.00**

	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
7	Providing **chain link fencing** 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.3)								
	Quoted Rate	**845.23**							
	Basic Rate	659.00							
	Add Area weightage of 6%	39.54							
	Sub Total	698.54							
		Sqm							
	For Chain Link Fencing		1	1750.00		2.00	3500.00		
							3500.00	**845.23**	**2958305.00**
8	Fabricating, providing and erecting in poiston of M S Ornamental security Grill Gate without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings (BCSR 2016-2017, Page 41, Item No 7.31)								
	Quoted Rate	**161.60**							
	Basic Rate	126.00							
	Add Area weightage of 6%	7.56							
	Sub Total	133.56							
	Above 9.0% TP	12.02							
	Sub Total	145.58							
		Kgs							
			2	4.80		2.00	19.20		
				1 sqm = 55 Kgs			1056.00		
					Total Qty		**1056.00**		
					Upto 125%		**990.00**	**161.60**	**159984.00**
					Above 125%		**66.00**	**145.58**	**9608.31**
	EXTRA ITEM								
E1	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.13 I.No.4.2)								
	Basic Rate	4867.00							
	Add Area weightage of 6%	292.02							
	Sub Total	5159.02							
	Above 9.0% TP	464.31							
	Sub Total	5623.33							
	For Chain Link Fencing	**Cum**							
	Area - 1		750	0.60	0.60	0.15	40.50		
							40.50	**5623.33**	**227744.94**

	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
E2	KSRRB M400- Water Bound Macadam KSRRB M400-14.1. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3-wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per Specification. A. By mannual means. MORTH Specification No. 404 - Type A 13.2mm for grading II (P.No.157 I.No.20.14.1)								
	Basic Rate	1771.00							
	Add Area weightage of 6%	106.26							
	Sub Total	1877.26							
	Above 9.0% TP	168.95							
	Sub Total	2046.21							
		Cum							
	Road		1	566.00	5.90	0.20	667.88		
							667.88	**2046.21**	**1366625.01**
								Total Cost of Construction, Rs.	**10751417.86**

Assistant Engineer,
Yelahanka Project Division
BBMP

Asst. Exec. Engineer,
Yelahanka Project Division
BBMP

Executive Engineer,
Yelahanka Project Division
BBMP

Technical Sanction
Accorded For Rs 10751417.86
Head of A/C 00607
CER NO : 03 Dt: 24.04.1

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